CURRICULAM VITAE

Name	:	Dr. Rakesh Gupta			
Fathers' Name	:	Late Sh. R. K. Gupta			
Date of Birth	:	Dec. 29, 1959			
Present Position	:	Senior-most Professor of	1-		
		Ch. Charan Singh University			
Office Address	:	Dept. of Statistics			
		Ch. Charan Singh University, Me	eerut		
Residential Address	:	AB-1, Professors' Bungalow,			
		Ch. Charan Singh University Car	npus		
		Meerut (U.P.) - 250004			
		Ph. (0121) 2765969, Mob. – 941	2630572		
		E-mail- smprgccsu@gmail.com			



Academic Qualifications :

Degree	Subjects	Year	Division	University	Remark
B. Sc.	Chem., Maths &	1978	I st	Meerut Univ.	-
	Statistics				
M. Sc.	Statistics	1980	\mathbf{I}^{st}	Meerut Univ.	I st Position in the
					University
M. Phil.	Statistics	1982	\mathbf{I}^{st}	Meerut Univ.	I st Position in the
					University
Ph. D.	Statistics	1984	-	Meerut Univ.	Awarded J.R.F. and
					S.R.F. of C.S.I.R.

Fellowships Awarded

:

Designation	Duration	Name of the Institution
J.R.F. (C.S.I.R.)	31.01.81 - 31.01.83	Meerut University, Meerut
S.R.F. (C.S.I.R.)	01.02.83 - 28.02.85	Meerut University, Meerut
R.A. (C.S.I.R.)	01.03.85 - 24.09.85	Dept. of O.R., Univ. of Delhi

Teaching Experience : 34 Years

Designation	Duration	University	Course Taught	
Lecturer	25.9.85-29.12.91		M. Sc Matrix Theory, Probability Theory,	
			Engineering Statistics, Multivariate Analysis,	
Reader	30.12.91-29.12.99	Ch. Charan Singh	Laplace Transform, Operations Research,	
		University, Meerut	Statistical Distributions	
Professor	30.12.99-31.03.18		M. Phil Reliability Theory and	
			Distribution Theory	

Research Experience : 37 Years

RESEARCH GUIDANCE/PUBLICATION

- (i) Guided seventy three (73) M. Phil. dissertations in Statistics.
- (ii) Supervised twenty seven (27) students for completing their Ph. D. degrees. (See Annexure-A) and three (03) are in hand.
- (iii) One hundred sixty Six (166) Research papers have been published in various national and international journals, like Microelectronics and Reliability (U.K.), Int. J. of Systems Science (U.K.), IEEE Trans. Reliability (USA), Reliability Engineering and System Safety (USA), J. of Quality in Maintenance Engineering (Saudi Arabia), Int. J. of Management and Systems (Delhi), J. of Ravishankar University (Raipur), Int. J. of Productivity Quality and Reliability (Kolkata), Aligarh J. of Statistics (A.M.U.), Gujarat Statistical Review (Ahmadabad), J. of Combinatorics Information & System Sciences (Delhi), Int. J. of Agricult. Stat. Sciences, Pure and Applied Mathematika Sciences, J. of Rajasthan Academy of Physical Sciences, Int. J. of System Assurance Engineering and Management (Springer), Int. J. of Scientific and Engineering Research (France), Int. J. of Scientific and Research Publications, Int. J. of Research and Review in Applied Sciences (Pakistan), J. of Mathematical and Computational Science (London), J. of Informatics and Mathematical Sciences, J. of Reliability and Statistical Studies (Pant Nager), J. of Statistics & Management Systems, Int. J. of Statistics and Systems and Int. J. of Tran. In Mathematical Sciences and Computer. (See Annexure-B)
- (iv) Published Seven (07) Research Papers in the Proceedings of various National and International Conferences organized at different places. (See Annexure-C)

CHAPTERS IN THE BOOKS

- (i) Contributed a 50 pages chapter titled "Analysis of Stochastic Models in Manufacturing Systems Pertaining to Repair Machine Failure" to the book entitled "Optimization Methods for Manufacturing" edited by Prof. Cornelius T. Lenodes, University of California, Los Angeles and Published by CRC press, Washington in the year 2001.
- (ii) Contributed a chapter titled "A Two-Non-Identical Unit Standby System with Two Repairmen and Correlated Failure and Repair Times" Math. Modeling and Applications, Failure and Repair Times, Math Modeling and Applications, Lembert Academic Publisher, pp. 164-177(2014).
- (iii) Contributed a chapter titled "Performance Measures of a Two-Unit Warm Standby System Model with Repair, Inspection and Post-Repair", Math. Modeling and Applications, Lembert Academic Publisher, pp.-178-191(2014).
- (iv) Contributed a chapter titled "Cost-Benefit Analysis of a 2-out-of-3 Unit Discrete Parametric Markov Chain System Model", Math. Modeling and Applications, Lembert Academic Publisher, pp.-192-204(2014).
- (v) Contributed a chapter titled "A Two-Unit Cold Standby System with Assistant and Master Repairman having Geometric Distributions", Math. Modeling, Optimization and Information Technology, Lembert Academic Publisher, pp.-511-524(2015).

SEMINARS / CONFERENCES ATTENDED

- (i) Attended II International Symposium on Optimization and Statistics held at A.M.U., Aligarh during Nov. 2-4, 1993.
- (ii) Attended a National Seminar on Operation Research and Management Decision Making held at Delhi University, Delhi during Nov. 19-20, 1993.
- (iii) Presented a paper in the First Annual Conference of Indian Society of Information Theory and Applications held at Rohtak in the Dept. of Statistics, M.D. University during Feb. 3-5, 1996.
- (iv) Presented a paper in the IV International Symposium on Optimization and Statistics and Annual Conference of Indian Society of Information Theory and Applications held at Aligarh in the Dept. of Statistics, A.M.U. during Dec. 8-10, 1998.
- (v) Presented a paper in the Silver Jubilee Symposium on Modeling, Optimization and Information Technology in Managerial Decision Making held at Bundelkhand University, Jhansi during Jan. 14-16, 2000.
- (vi) Delivered a talk on "Some Aids to Reliability Studies" in a workshop held in March 2000 in the Dept. of Statistics, C. C. S. University, Meerut.
- (vii) Presented a paper in the XX Annual Conference of Indian Society for Probability and Statistics held in the Dept. of Statistics, Pt. Ravishankar Shukla University, Raipur (M.P.) during Feb. 19-21, 2001.

- (viii) Presented a paper in the Vth International Symposium on Optimization and Statistics held in the Dept. of Statistics, A.M.U., Aligarh during Dec. 28-30, 2002.
- (ix) Presented a paper in International Conference on Life Testing, Reliability, Sampling Theory and Quality Control held in the Dept. of Statistics, B.H.U., Varanasi during Dec. 29-31, 2003.
- (x) Presented a paper and chaired a session in National Conference on Emerging Trends in Statistical Methods and Optimization Techniques held in Department of Statistics, University of Jammu, Jammu during Feb. 22-23, 2008.
- (xi) Presented a paper in International Conference on Development and Applications of Statistics in Emerging Areas of Science and Technology held in Department of Statistics, University of Jammu, Jammu during Dec. 8-10, 2010.
- (xii) Presented a paper in National Conference on Statistics for Twenty-first Century held in Department of Statistics, University of Kerala, Trivandrum during March 17-19, 2011.
- (xiii) Delivered a talk and chaired a session in VII International Symposium on Optimization and Statistics held in Department of Statistics and Operations Research, A.M.U., Aligarh during Dec. 21-23, 2012.
- (xiv) Delivered an invited talk in a national seminar on "Optimization Techniques" organized by Department of Statistics D.A.V. PG College, Muzaffarnagar during March 19-20, 2013.
- (xv) Presented a paper and chaired a session in IV National Conference on Statistical Inference, Sampling Techniques and related Areas held in Department of Statistics and Operations Research, A.M.U., Aligarh during Feb. 18-19, 2014.
- (xvi) Delivered an invited talk and Chaired a session in a national conference on "Recent Advances in Statistical and Mathematical Sciences and their Applications" organized by Department of Statistics Kumaun University, S.S.J. Campus, Almora during Oct,04-06,2014.
- (xvii) Delivered an invited talk in a national conference on "Recent Trends and Developments in Statistics (NCRTDS)" organized by Department of Statistics M.D. University, Rohtak during Feb,21-23,2015.
- (xviii) Delivered an invited talk and chaired a session in a national conference on "Statistics and Optimization Techniques" organized by Department of Statistics, M.D. University, Rohtak during Feb. 11-13, 2017.
- (xix) Delivered an invited talk and chaired a session in a International conference on Recent Trends of Computing in Mathematics, Statistics and Information Technologies" organized by Department of Mathematical Science and Computer Applications, Bundelkhand University, Jhansi during March 9-11, 2018.

S. No.	Торіс	Agency	Period	Amount (in Rs.)
(i)	Estimation of parameters in	U.G.C.	11.10.90-10.10.91	17,000.00
	Stochastic Models		(Two years)	
(ii)	Cost Benefit Analysis of	U.G.C.	28.03.95-27.03.98	1,39,092.00
	Estimation of Parameters		(Three years)	+ one J.R.F.
(iii)	Configurational Study and Analysis	U.G.C.	26.03.99-25.03.01	15,000.00
	Stochastic Models		(Two years)	
(iv)	Some Reliability Aids to Engineering	U.G.C.	03.09.01-02.09.03	20,000.00
	System Models		(Two years)	

RESEARCH PROJECTS COMPLETED

DETAILS OF OTHER ACADEMIC / ADMINISTRATIVE ASSIGNMENTS

- (i) Worked as a Referee of various national and international journals such as-Microelectronics and Reliability (U.K.), Reliability Engineering and System Safety (USA), Journal of Quality in Maintenance Engineering (Saudi Arabia), Journal of Ravishankar University (Raipur), Gujarat Statistical Review (Ahmadabad), Aligarh Journal of Statistics (Aligarh), IMA Journal of Applied Mathematics (U.K.), International Journal of System Assurance Engineering and Management, Journal of Reliability and Statistical Studies and International Journal of Systems Science (U.K.).
- (ii) Evaluated a number of M.Phil. / Ph.D. Thesis of various Universities and worked as a Paper-Setter of Public Service Commission – U.P., M.P. and Various state Universities.
- (iii) Acting as a member of Board of Studies in H.N.B. Garhwal University, Srinagar since last ten years.
- (iv) Worked as Assistant D.S.W., Ch. Charan Singh University, Meerut during the period 1993-1995.
- (v) Worked as a Warden of K.P. Boys Hostel, Ch. Charan Singh University, Meerut during the period Dec.15, 1998 to Sept.20, 2001.
- (vi) Worked as a member of Advisory Board of the School of Business Studies, Ch. Charan Singh University, Meerut during the session 1999-2000.
- (vii) Worked as Chief Election Officer for conducting University Campus Students' Union Elections 2004-2005.
- (viii) Acted as coordinator of National Mathematical Olympiad of Meerut region during 2003-07.
- (ix) Worked as Coordinator of UGC NET Exam-Dec. 2008.
- (x) Worked as Dean of Science, CCS University, Meerut.

- (xi) Worked as senior superintendent CCS University Campus semester examinations in Dec-Jan, 2011.
- (xii) Worked as Head department of Statistics from Jan. 01, 2008 to Dec. 31, 2010 and Jan 01, 2014 to Dec. 31, 2016.
- (xiii) Member of IQAC, C.C.S.University, Meerut from 2010.
- (xiv) Presently working as Professor in-charge of Raja Mahendra Pratap Library, C.C.S. University, Meerut.

LIST OF STUDENTS WHO HAVE COMPLETED THEIR PH.D

Annexure-A

- 1. **Mr. Sachendra Bansal,** "Cost benefit Analysis of Some Reparable Redundant Systems", Awarded (1990).
- 2. **Mrs. Alka Chaudhary,** "Some Stochastic Models Related to Engineering Systems", Awarded (1993).
- 3. **Mr. S. Z. Mumtaz,** "Model Building and Analysis of Some Redundant Systems", Awarded (1994).
- 4. **Mrs. Ritu Goel,** "Cost-Benefit Analysis of Some Probabilistic Models Related to Engineering Systems", Awarded (1999).
- 5. **Mr. Nitin Rastogi**, "Some Aids to Reliability Studies", Awarded (2000).
- 6. **Mr. Ram Kishan**, "Stochastic Analysis of Some Reparable Redundant Systems", Awarded (2001).
- 7. **Mr. A. K. Mogha**, "Cost-Benefit Analysis of Some Stochastic Models of Redundant Systems", Awarded (2002).
- 8. **Mr. V. K. Sehgal,** "Counter-Model Theory and its Applications in Population Studies Competing Risks and Epidemic Models", Awarded (2003).
- 9. **Mr. Shivakar**, "Some Reliability Aids to Engineering System Models", Awarded (2003).
- 10. **Mr. Praween Kumar,** "Cost-Benefit Analysis of Some Probabilistic Models Related to Engineering Systems", Awarded (2003).
- 11. Mr. P. D. Agarwal, "Stochastic Analysis of Some Redundant System models", Awarded (2003).
- 12. **Mr. Pawan Kumar,** "Some Stochastic Reparable Engineering System Models", Awarded (2003).

- 13. **Mr. Pradeep Chaudhary,** "Cost-Benefit Analysis of Various Reparable Stochastic Models", Awarded (2004).
- 14. **Mr. A. K. Gupta**, "Analysis of Some Non-Markovian Stochastic Models of Redundant Systems", Awarded (2004).
- 15. **Mr. Rahul Singh,** "Profit Analysis of Some Reparable Engineering System Models", Awarded (2005).
- 16. **Mr. Satish Kumar**, "Cost Benefit Analysis of Non-Markovian Models of Some Redundant Systems", Awarded (2006).
- 17. **Km. Madhu Mahi**, "Analysis of Some Reparable Redundant System Models", Awarded (2006).
- 18. **Mr. Gaurav Varshney,** "Configurational Modeling and Analysis in Respect of Reliability Characteristics of Some Redundant System Models", Awarded (2006).
- 19. **Mr. Pradeep Sharma,** "Configurational Study and Analysis in Respect of Reliability Characteristics of Some Stochastic System Models", Awarded (2006).
- 20. **Miss. Punam Bisht,** "Stochastic Analysis of Some Probabilistic Models Related to Engineering Systems", (2008).
- 21. **Mr. Vishal Sharma**, "Analysis of Some Engineering System Models by Regenerative Point Technique", (2008).
- 22. **Km. Reshu Agarwal,** "Dynamic Statistical Modeling of Methane Emission from Wetlands Using Satellite Remote Sensing Data", (2008).
- 23. Mr. Kailash Kumar, "Profit Analysis of Some Engineering System Models", (2008).
- 24. Mr. Dharmendra Kumar, "Stochastic Analysis of Some Redundant System Models", (2009).
- 25. **Km. Archana Tomar**, "Stochastic Analysis of Some Reparable Engineering System Models", (2009).
- 26. **Mr. Vikas Saxena**, "Configurational Study and Cost-Benefit Analysis of Some Reparable Engineering System Models", (2011).
- 27. Mrs. Swati Kujal, "Some Reliability Aids to Reparable Man-Made System Models", (2015).

LIST OF RESEARCH PAPERS

Annexure-B

S.No	Title of Paper	Authors	Journal	Vol., Page and Year	ISSN and Publisher
1.	A Multistate System with Two Repair Distributions	L.R. Goel, N.K. Jaiswal & Rakesh Gupta	Microelectron Reliab	Vol. 23(2), 337-340, (1983)	0026-2714 Elsevier
2.	A Multi-Component Two Unit Cold Standby System with Three Modes	L.R. Goel and Rakesh Gupta	Microelectron Reliab	Vol. 23 (5), 799-803 (1983)	0026-2714 Elsevier
3.	A Multi-Standby System with Repair and Replacement Policy	L.R. Goel and Rakesh Gupta	Microelectron Reliab.	Vol. 23 (5), 805-808 (1983)	0026-2714 Elsevier
4.	A Multi-Standby Multi Failure Mode System with Repair and Replacement Policy	L.R. Goel and Rakesh Gupta	Microelectron Reliab.	Vol. 23 (5), 809-812 (1983)	0026-2714 Elsevier
5.	A Single Unit Multi- Component System Subject to Various Types of Failures	L.R. Goel, Rakesh Gupta and Praveen Gupta	Microelectron Reliab.	Vol. 23 (5), 813-816 (1983)	0026-2714 Elsevier
6.	Analysis of a Two Unit Hot Standby System with Three Modes	L.R. Goel, Rakesh Gupta and Praveen Gupta	Microelectron Reliab.	Vol. 23 (6), 1029-1033 (1983)	0026-2714 Elsevier
7.	Analysis of a Two Unit Cold Standby System with Three Modes	L.R. Goel, Rakesh Gupta and S.K. Singh	Microelectron Reliab	Vol. 23 (6), 1041-1044 (1983)	0026-2714 Elsevier
8.	Reliability Analysis of a Multi-Unit Cold Standby System with Two Operating Modes	L.R. Goel and Rakesh Gupta	Microelectron Reliab	Vol. 23 (6), 1045-1050 (1983)	0026-2714 Elsevier
9.	A Two (Multi- Component) Unit Parallel System with Standby and Common Cause Failure	L.R. Goel, Rakesh Gupta and S.K. Singh	Microelectron Reliab	Vol. 24 (3), 415-418 (1984)	0026-2714 Elsevier
10.	Availability Analysis of a Two Unit Cold Standby System with Two Switching Failure Modes	L.R. Goel and Rakesh Gupta	Microelectron Reliab.	Vol. 24 (3), 419-423 (1984)	0026-2714 Elsevier

11. 12.	Analysis of a Two Unit Standby System with Three Modes and Imperfect Switching Device Availability Analysis of a Four-State Markov System	L.R. Goel and Rakesh Gupta L.R. Goel, N.K. Jaiswal and Rakesh	Microelectron Reliab. International Jornal of Systems	Vol. 24 (3), 425-429 (1984) Vol. 25 (9), 977-982, (1984)	0026-2714 Elsevier 0020-7721 Taylor Francis
13.	Cost Analysis of a Two- Unit Priority Standby System with Imperfect Switch and Arbitrary Distributions	Gupta L.R. Goel, Rakesh Gupta and S.K. Singh	Science Microelectron Reliab.	Vol. 25 (1), 65-69, (1985)	0026-2714 Elsevier
14.	Cost Analysis of a Two- Unit Cold Standby System with Two Types of Operation and Repair	L.R. Goel, Rakesh Gupta and S.K. Singh	Microelectron Reliab	Vol. 25 (1), 71-75, (1985)	0026-2714 Elsevier
15.	Availability Analysis of a Two-Unit (Dissimilar) Parallel System with Inspection and Bivariate Exponential Life Times	L.R. Goel, Rakesh Gupta and S.K. Singh	Microelectron . Reliab.	Vol. 25 (1), 77-80, (1985)	0026-2714 Elsevier
16.	Cost Analysis of a Two- Unit Standby System with Delayed Replacement and Better Utilization of Units	L.R. Goel, Rakesh Gupta and S.K. Singh	Microelectron Reliab.	Vol. 25(1), 81-86, (1985)	0026-2714 Elsevier
17.	Cost Analysis of a System with Partial Failure Mode and Abnormal Weather Conditions	L.R. Goel, Rakesh Gupta and A.K. Rastogi	Microelectron Reliab.	Vol. 25(3), 461-466, (1985)	0026-2714 Elsevier
18.	Profit Analysis of a Cold Standby System with Two Repair Distributions	L.R. Goel, Rakesh Gupta and S.K. Singh	Microelectron Reliab.	Vol. 25(3), 467-472, (1985)	0026-2714 Elsevier
19.	Cost Analysis of a Two Unit Cold Standby System Under Different Weather Condition	L.R. Goel, G.C. Sharma and Rakesh Gupta	Microelectron Reliab.	Vol. 25(4), 655-659, (1985)	0026-2714 Elsevier
20.	Cost-Benefit Analysis of a One-Server Two-Unit Standby System Subject to Imperfect Switching Device, Random Inspection and k-Failure Modes	Rakesh Gupta	Microelectron Reliab.	Vol. 26(1), 7-11, (1986)	0026-2714 Elsevier

21.	Probabilistic Analysis of a Two-Unit Cold Standby System with Two-Phase Repair and Preventive Maintenance	Rakesh Gupta	Microelectron Reliab.	Vol. 26(1), 13-18, (1986).	0026-2714 Elsevier
22.	Stochastic Analysis of Standby System with Duplex Units	L.R. Goel, S.K. Singh and Rakesh Gupta	Microelectron Reliab.	Vol. 26 (1), 19-24, (1986)	0026-2714 Elsevier
23.	Cost-benefit analysis of a two-unit warm standby system with inspection, repair and post-repair	L.R. Goel, Rakesh Gupta and S.K. Singh	IEEE Transaction on Reliability	Vol.R- 35(1),70, (1986)	0018-9359 IEEE Education Society
24.	Cost-benefit analysis of a single server three unit redundant system with inspection, delayed replacement and two types of repair	Rakesh Gupta , C.P. Bajaj and S.K. Singh	Microelectron Reliab.	Vol. 26(2), 247-253, (1986)	0026-2714 Elsevier
25.	Profit analysis of a two- unit standby system with two types of repair and preventive maintenance	L.R. Goel, Rakesh Gupta and A.K. Rastogi	Microelectron Reliab.	Vol. 26(3), 435-444 (1986).	0026-2714 Elsevier
26.	A single server multi- component two-unit cold standby system with inspection and imperfect switching device	Rakesh Gupta, C.P. Bajaj and S.M. Sinha	Microelectron Reliab	Vol. 26(5), 873-877 (1986).	0026-2714 Elsevier
27.	Cost-benefit analysis of a multi-component standby system with inspection and slow switch	Rakesh Gupta, C.P. Bajaj and S.M. Sinha	Microelectron Reliab	Vol. 26(5), 879-882 (1986).	0026-2714 Elsevier
28.	Cost analysis of a two unit priority standby system with imperfect switch, intermittent repair and arbitrary distributions	L.R. Goel, Rakesh Gupta and S.K. Singh	IEEE Transaction on Reliability	Vol. R- 35(5), 585 (1986)	0018-9359 IEEE Education Society
29.	Analysis of a single server three-unit redundant system with inspection and delayed replacement	L.R. Goel, S.K. Singh and Rakesh Gupta	IEEE Transaction on Reliability	Vol.R- 35(5), 606 (1986).	0018-9359 IEEE Education Society
30.	Stochastic behavior of a cell-exposed to radiations	L.R. Goel, Rakesh Gupta and V.S. Rana	Int. Journal of Management and Systems	Vol. 4(1), 15-26, (1988)	0970-7328 Technocrat Publications Centre

31.	Stochastic behavior of a cell survival with n- sensitive regions of nucleus and cytoplasm	L.R. Goel, Rakesh Gupta and V.S. Rana	Int. Journal of Management and Systems	Vol.5(2), 89-98, (1988)	0970-7328 Technocrat Publications Centre
32.	Analysis of a three-unit redundant system with two types of repair and inspection	L.R. Goel, Rakesh Gupta and R.K. Agnihotry	Microelectron Reliab	Vol. 29(5), 769-773, (1989)	0026-2714 Elsevier
33.	Profit analysis of a two- unit priority standby system with administrative delay in repair	Rakesh Gupta and L.R. Goel	Int. Journal of Systems Science	Vol. 20(9), 1703-1712, (1989).	0020-7721 Taylor Francis
34.	Stochastic analysis of a two-unit warm standby system with fault detection and inspection	L.R. Goel, R.K. Agnihotry and Rakesh Gupta	Microelectron Reliab.	Vol. 30(1), 61-65, (1990).	0026-2714 Elsevier
35.	Operating orbit system with two dissimilar units and corresponding standby	L.R. Goel, Rakesh Gupta and S.E. Moafi	Int. J. of Systems Science	Vol. 21(3), 495-501, (1989)	0020-7721 Taylor Francis
36.	Profit analysis of a two- unit priority standby system with rest period of the operator	Rakesh Gupta, S. Bansal and L.R. Goel	Microelectron Reliab	Vol.30(4), 649-654, (1990)	0026-2714 Elsevier
37.	Profit analysis of a two- unit cold standby system with varying physical conditions of the repairman	L.R. Goel, Rakesh Gupta and P. Srivastava	Microelectron Reliab	Vol. 30(4), 655-660 (1990)	0026-2714 Elsevier
38.	Stochastic analysis of a multi-unit cold standby system working in orbit form	L.R. Goel, Rakesh Gupta and S.E. Moafi	Microelectron Reliab	Vol. 30(5), 845-850 (1990)	0026-2714 Elsevier
39.	Reliability analysis of a system with a mixture of warm and cold standby	Rakesh Gupta, S. Bansal and L.R. Goel	Microelectron Reliab	Vol. 30(6), 1039-1042 (1990)	0026-2714 Elsevier
40.	Cost-benefit analysis of two-unit parallel system with administrative delay in repair	Rakesh Gupta and Rakesh Goel	Int. J. of Systems Science	Vol. 21(7), 1369-1379 (1990)	0020-7721 Taylor Francis
42.	Profit function analysis of a system with mixture of warm and cold standby	Rakesh Gupta, S. Bansal and L.R. Goel	Int. J. of Systems Science	Vol. 21(8), 1577-1587 (1990)	0020-7721 Taylor Francis

43.	Profit analysis of a two-	Rakesh	Microelectron	Vol. 31(1),	0026-2714
	unit cold standby system	Gupta and	Reliab.	1-5,	Elsevier
	conditions	Kakesii Goei		(1991)	
44.	Profit analysis of a two	Rakesh	Microelectron	Vol. 31(1),	0026-2714
	multi-component unit	Gupta, R.	Reliab	7-10,	Elsevier
	standby system with	Goel and L.R.		(1991).	
15	MRT	Goel		N. 1. 01/1)	0006 0714
45.	I wo unit redundant	L.R. Goel,	Microelectron	Vol. $31(1)$, 11.14	0026-2714 Electrica
	and adjustable rates	K.K. Agnihotri and	Reliad	(1001)	Elsevier
	and adjustable rates	Rakesh		(1))1)	
		Gupta			
46.	Profit analysis of a two-	Rakesh	Int. J. of	Vol. 22(1),	0020-7721
	unit priority standby	Gupta and	Systems	61-72,	Taylor
	system subject to	Sachendra	Science	(1991)	Francis
15	degradation	Bansal			00060714
47.	C.H.E. tailure in a two-	L.K. Goel,	Microelectron	Vol. 31(2-	0026-2714 Electrica
	slow switch repair and	Rakesn	Reliad.	(3), 219- (222)(1001)	Elsevier
	nost renair	P K Tyagi		222, (1991)	
48.	Cost analysis of a three-	Rakesh	Reliability	Vol. 33(2).	0951-8320
	unit standby system	Gupta and	Engineering	249-263	Elsevier
	subject to random shocks	Sachendra	and System	(1991)	
	and linearly increasing	Bansal	Safety		
	failure rates				
49.	Analysis of a complex	Rakesh	Microelectron	Vol. $21(2/2)$	0026-2714
	system composed of two	Gupta and	Reliab	31(2/3),	Elsevier
	standby	Bansal		(1990)	
50.	A single server two-unit	L.R. Goel.	Microelectron	Vol.31(5).	0026-2714
	warm standby system	R.K.	Reliab	841-845	Elsevier
	with n failure modes,	Agnihotri and		(1991)	
	fault detection and	Rakesh		(1))1)	
	inspection	Gupta			
51.	Comparison of two	S.E. Moafi,	Microelectron	Vol.31(6),	0026-2714
	stochastic models each	L.R. Goel and	Reliab	1105-1111,	Elsevier
	related to two unit series	Rakesh		(1991)	
	system with cold	Gupta			
50	Standoys Stochastic analyzic of a	I.D. Coal	Miono ala atrast	$V_{0}(2)(6)$	0026 2714
32.	computer system model	L.N. UUEI, V.S. Rana and	Reliab	$v_{01.51(0)},$	0020-2714 Flsevier
	with intelligent terminals	Rakesh	Kellab	(1001)	
	and two types of failures	Gupta		(1991)	
	JF 1 1 1 1 1 1 1 1 1 1				
53.	Analysis of a two-unit	Rakesh	Int. Journal of	Vol.	0020-7721
	cold standby system with	Gupta	Systems	22(11),	Taylor
	degradation and linearly		Science	2329-2338	Francis
	increasing failure rates			(1991)	

54.	Cost-benefit analysis of one-unit system with n- degraded states due to random shocks	Rakesh Gupta and Sachendra Bansal	Int. Journal of Systems Science	Vol. 22(11), 2339-2346 (1991).	0020-7721 Taylor Francis
55.	Profit analysis of a k-out of n-trichotomous system	Rakesh Gupta and L.R. Goel	Reliability Engineering and System Safety	Vol. 37(1), 39-44, (1992)	0951-8320 Elsevier
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